BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

3804000.00

Name of Work:Restoration of BWWSSB Road cutting portion in LBS Nagara Census Block No.130/1 and 130/2 and 131/2 in Yelahanka New Town Ward no-04

Sl No	Description of item	No	L	B	D	Qty	Rate	Amount
1	Earth work excavation by manual means for drains, canals, waste weir, draft,approach channels, key trenches, foundation of Buildings & bridges and such simillar works in all kinds of soils, as per drawing and technical specifications,including setting out, shoring, strutting, barricading, caution lights, removalof stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking theselected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 5.5 m3) (V-I Page No.5, Item No.1.4 of PWD SR 2023-24) & (V-III Page No.5, Item No.1.1C of PWD SR 2023-24)							
	Basic rate	242						
	Loading and Unloading	135						
	Sub Total	377						
	Area Weightage 10%	37.7						
	Total Rate	414.7						
		2	5.5	1.2	0.9	11.88	414.7	4926.64
2	Providing, laying, spreading and compacting graded stoneaggregate mixed with cement to crushed stone treated base specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with Paver in sub base / base courseon well prepared surface and compacting with vibratary roller to achieve the desired density. (Laying using Mechanical paver) (V-1 Page No.26, Item No.4.13 of PWD SR 2023-24)							
	Basic rate	3238						
	Area Weightage 10%	323.8						
	Total Rate	3562						
		1	480	1	0.15	72	3561.80	256449.60
3	Providing and laying in position Cement Concrete for levelling course forall works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid inlayers not exceeding 150 mm thickness, well compacted using plate vibrators,including all lead & lifts, cost of all materials of quality, labour, Usage charges ofmachinery, curing, and all the other appurtenances required to complete thework as per technical specifications.Mix 1:3:6 Using 40 mm nominal size graded crushed coarseaggregates(vol 1, pg no.15, sl no.2.1.3 PWD SR 2023-24)							
	Basic rate	5989						
	Area Weightage 10%	598.9						
	Total Rate	6587.9						
	Longitudinal (1*550*1*0.15)=66	1	480	1.00	0.15	72		
	Horizontal(40*1.30*0.80*0.15)=6.24	40	1.2	0.80	0.15	5.76		
	Culvert	2	5.5	0.90	0.15	1.485		
						79.245	6587.90	522058.14

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4	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a preparedsub base, with 43 grade cement or any other type as perClause 1501.2.2 **M30 (Grade)**, coarse and fine aggregatesconforming to IS:383:2016:, maximum size of coarseaggregate not exceeding 25 mm, mixed in a concrete mixerof not less than 0.2 cum capacity and appropriate weighbatcher using approved mix design, laid in approved fixedside formwork (steel channel, laying and fixing of 125 micronthick polythene film, wedges, steel plates including levellingthe formwork as per drawing), spreading the concrete withshovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation includingconstruction joints, primer, sealant, curing of concrete slabsfor 14-days, and water finishing to lines and grade as perdrawing and technical specification clause 1501 with alllead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.**(vol 3, pg no.149, sl no.16.28 PWD SR 2023-24)**							
	Basic rate	6754						
	Area Weightage 10%	675.4						
	Total Rate	7429.4						
		1	480	4.30	0.15	**309.6**	7429.40	**2300142.24**
5	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification.(V-I, I.No 12.11h Page No 18, PWD SR 2023-24)							
	Basic rate	79011						
	Area Weightage 10%	7901.1						
	Total Rate	86912						
	For RCC Culvert, 90kg/Cum	1	5.5	90.00		495		
						0.49	**86912.1**	**42586.93**
6	Providing and laying in position **Reinforced cement concrete** for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M20 Design Mix Using 20 mm** nominal size graded crushed coarse aggregates (V-1,P.No.16, I.No.2.4.2 of PWD SR 2023-24)							
	Basic rate	6323						
	5% Centering	316.15						
	Sub Total	6639.2						
	Area Weightage 10%	663.15						
	Total Rate	7302.3						
	Culvert Raft	2	5.5	1.00	0.2	2.2		
	Culvert Wall	4	5.5	0.30	0.5	3.3		
						5.5	7302.30	**40162.65**
7	Providing and fixing precast reinforced cement concrete **covering slabs of 23Cm thick** made of M25 with OPC cement,@340kgs/cum with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine,mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work.(Exclusive of GST and Area Loading Charges)							
	Data rate	5037						
		2	5.5	1.00		11	**5037**	**55407.00**

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8	**Cost of Haulage Excluding Loading** and Unloading Taking output 18 t load and lead 10 km = 180 t.km(V-III Page No.3, Item No.1.4b of PWD SR 2023-24							
	Basic Rate	8						
	10KM Lead = 10*8	80						
	Area Weightage 10%	8						
	Total Rate	88						
	Qty frm Item No-1		13	1.28		16.59	88.00	1459.81
							Total construction cost	3223193.00
							GST 18%	580174.74
							Sub Total	3803367.75
							Miscellaneous	632.25
								3804000.00

1 The work spot has been inspected and the work is found necessary.
2 This Estimate is prepared as per C.S.R. of PWD 2021-22
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No-04

Assistant Executive Engineer
Yelahanka New Town Sub Division
Bruhat Bangalore Mahanagara Palike

Executive Engineer
Yelahanka Division, BBMP

Administrative Sanction for Rs. 38.04 Lakhs.
Rupees Thirty Eight lakhs
Four thousand Only
is accorded under head P-1878
Registered as CE No. 32 Subject
to conditions contained in enclosed memo
No. BBMP/EE(YNTD)/AS/32/23-24 Dt. 2/2/2024

Executive Engineer

Technical Sanction
Accorded For Rs. 38.04 lakhs
Head of A/C P-1878
CER NO : 78 Dt. 2/2/24

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